

PGN1

1 GTCGAGGCAGTCACTAACATGAAGTTTGACGAGGAGCCCAACTATGGGAAGCTTATTTCTCTTTTCGAT 69  
3 52 66  
50

70 ACTCTAATTGAGCCGCTCTATCTTAGACCAATTAGAAATTGATGGAGCTCTAAAGGTTGCTGGCTGT 138  
89 95 119 121

139 TTTCTTGTTCATATGATTAACCTTCTAAACTTGTGTATAAATATTCTCTGAAAGTGCTTTTGGCATA 207  
150 206

208 TGTAGGTTGGGCAAAACGAGGAAGATTGCTTCTCAATTGGGAAGATGATGAACAGCCGAAGAAGAAA 276

277 TAAGAATAGGCAGTCCTGCTACTCAATGGATCTCAGTCTATATAACGGTCGTCGTCCTCCCATGAAACAGAGT 345  
305 309

FIG. 1A

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EcoRV  
346 AACACATTTTGGCATATACACTTTGATAGTTCCCTCACTAACTGTGTAATCTTTTGGTAGATATCACTA 414  
408  
NaeI  
MspI  
HpaII  
AluI HhaI  
415 CAAATGTTGGAGAGACAANGCTGCGCJRRRCATATACAGAAGGGAAATGAAGATGGCCCTTTTGATTAGCTG 483  
434 439 440 440 441 469 481  
AluI  
498  
HinfI  
484 TGTAGCATCAGCAGCTAATCTCTGGGGCTCTCATCATGGATGCTGGAACTGGATTCACTTCTCAAGTTTA 552  
535  
MspI  
HpaII  
553 TGAGTTGTCACCGGTCTTCCCTACACAAGGTAATAATCAAGTGAAGCAATTAAGAAATCAATCTGATTGT 621  
564 564 606  
DdeI  
622 AGTAACTAAGAAGAACTTACCTTATGATTTCCCCCGCAGGACTGGATTATGGAACAATGGGAAAAGAAC 690  
629

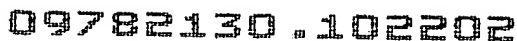
FIG. 1B

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**FIG. 1C**

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1105 CATAGGAGGTGGGAGAATGGGTATAGAATAACATCAATGGCAGCAACTGCCGGATCAAGCAGCTTTTCATA 1173  
Sau3AI AluI  
1156 1166

1174 TTAAGCATACCAAGCGTAAGATGGTGGATGAAACTCAAGAGACTCTCCGCACCACCGCCTTTCCAAAGT 1242  
HinfI  
1216

1243 ACTCATGTCAAGGTGGTTTCTTTAGCTTTTGAACACAGATTGGGATCTTTTGTGTTTGTTCATATAC 1311  
ScaI Sau3AI  
RsaI AluI  
1243 1243 1269 1286

1312 ATAGGACCTGAGAGCTTTTGGTTGAATTTTTTTTTTTCAGGACAAATGGGGCGAAGAAATCTGTACATTG 1380  
DdeI  
AvaII AluI  
1316 1326 1368 1375

1381 CATCAATATGCTATGGCAGGACAGTGTGCTGATGATACACACTTAAGCATCATGTGTGTAGAAAG 1449  
MstII  
DdeI  
1472 1472

1450 CCGAAGACAAATTGGAGCGAGCCCTCAGGGTCGTCAATAATACCAATCAAAGACGTAACCAAGACGCGCAGTC 1518  
Tth111I  
1514

FIG. 1D

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1519 TCTTTGGTTGAATGTGATGAAAGGGAATGTGCTTGGTATGTATGTACGAGTAACAAAGAGAAAGATGCA 1587  
RsaI | 1564

1588 ATTGAGTAGTAGAAAGATTGTGAGAGCTTTTAAAGCCCTTCAAGTGTGTGCTTTTATCTTATTGATATC 1656  
AluI DraI | EcoRV 1613 1619 1654

1657 ATCCATTGCGTTGTTAATGCGTCTTTAGATATGTTTCTGTTTCTTCAGTGTCTGAATATCTGAT 1725  
DdeI | 1706

1726 AAGTGCAATGTGAGAAAGCCACACCAAAATATTCAAATCTTATATTTTTTAATAATGTCGAATCA 1794  
TaqI HinfI | 1790 1788

1795 CTCGGAGTTGCCACCTTCTGTGCCCATTGTGCTGAATCTATCACACTAAAAAACATTTCTTCAAGGT 1863  
HinfI | 1829

1864 AATGACTTGTGGACTATGTTCTGAATTCATTAAGTTTTTATTTTTTGAAGTTTAAGTTTTTACCTTC 1932  
EcoRI | 1887

FIG. 1E

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1933 TTTTGTGAAAAATATCGTTTCATAAGATGTCACGCCAGGACATGAGCTACACATCACAATATTAGCATGCA 2001  
1968 1978 SphI  
2002 GATGCGGACGATTGTCACTCACTTCAAAACACCTAAAGAGCTTCTCTCTCACAGCACACACATATG 2070  
2043 NdeI  
2071 CATGCAATATTTACACGTGATCGCCCATGCAAAATCTCCATTCTCACCTATAAAATTAGAGGCTCGGCTTCA 2139  
2073 2075 SphI  
2089 NsiI  
2140 CTTTTTACTCAAAACCAAACTCATCACTACAAAACATACACAATGGCGAACAAGCTCTTC 2200  
2195 Met AluI

FIG. 1F

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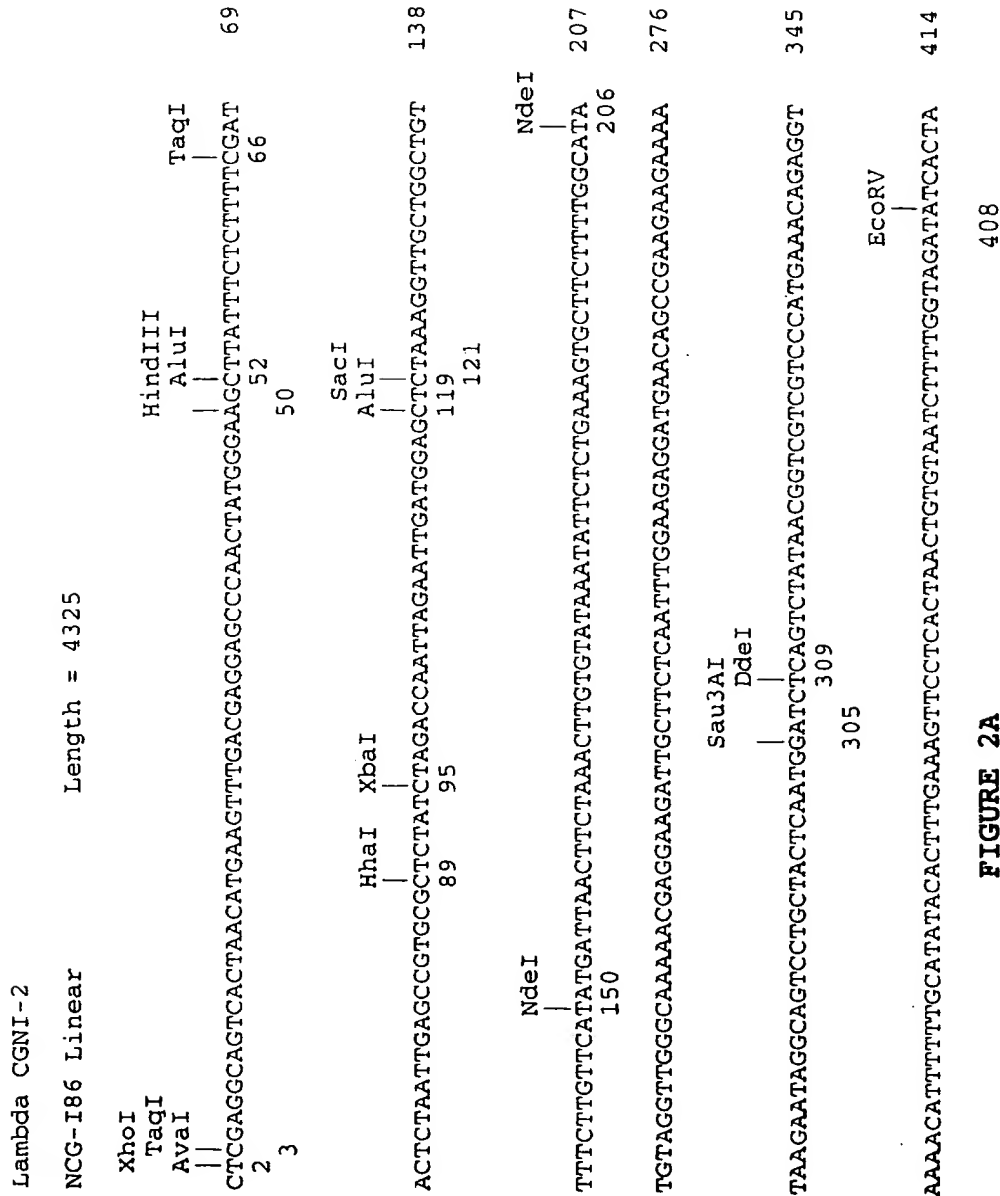


FIGURE 2A

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HincII  
HhaI  
HaeIII  
DdeI  
BstEII  
Bali  
|||  
CAATGTCGGAGAGACAA3GGCTGMNCANCATATACAAAAGGGAATGAAGATGGCCCTTTTGTGATTAGCTG 483  
439  
438  
440  
AluI  
HincI  
HinfI  
TGTAGCATCAGCAGCTAATCTCTGGGCTCTCATCATGGATGCTGGAACCTTCAAGTTTA 552  
498  
535  
MspI  
HpaII  
HinfI  
TGAGTTGTACCCGGTCTTCCCTACACAAGGTAATAATCAGTTGAAGCAATTAAGAATCAATTTGATTGT 621  
564  
564  
DdeI  
AGTAAACTAAGAAGAACTTACCTTATGTTTCCCCGAGGACTGGATTATGGAACAATGGGAAAAGAAC 690  
629  
AluI AluI  
AluI AluI  
TACTATATAAGCTCCATAGCTGGTTCAGATAACGGGAGCTCTTTAGTTGTTATGTCAAAGGTTAGTGT 759  
702  
710  
729  
731

FIGURE 2B

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**FIGURE 2C**

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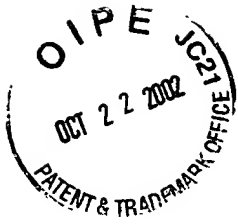
CTCATGTCAAGGTTGGTTCTTTAGCTTTTGAACACAGATTTGGATCTTTTGTGTTTGTTCATATACT 1311  
 1268 1285 1311 DdeI  
 AluI Sau3AI  
 DdeI  
 AvalI AluI HinfI RsaI  
 TAGGACCTGAGAGCTTTTGGTTGATTTTTTTTTCAGGACAAATGGCGAAGAAATCTGTACATTGCAATCA 1380  
 1315 1325 1363 1370  
 1319  
 ATATGCTATGGCAGGACAGTGTGCTGATACACACTTAAGCATCATGTGGAAGCCAAAGACAAATTGGAG 1449  
 HinfI  
 DdeI  
 CGAGACTCAGGTCGTCATAATACCAATCAAAGACGTAAACCAGACGCAACCTCTTTGGTTGAATGTA 1518  
 1456 1454  
 RsaI  
 ATGAAAGGGATGTGTCTTGGTATGTATGTACGAAATAACAAAAGAGAGATGGAATTAGTAGTAAATA 1587  
 1548  
 AluI EcoRV  
 TTTGGGAGCTTTTAAAGCCCTTCAAGTGTGCTTTTATCTTATGTATATCATCCATTTCGCTTGTAA 1656  
 1596 1635  
 XbaI DdeI  
 TCGCTCTCTAGATATGTTCCCTATATCTTTCTCAGTGTCTGTATAAGTGAATGTGAGAAAACCATACCAA 1725  
 1664 1687

FIGURE 2D

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Hinfi  
ACCAAAATATTCAAATCTTATTTTAAATGTTGAATCACTCGGAGTTGCCACCTTCTGTGCCAATTG 1794  
1761

Hinfi  
TGCTGAATCTATCACACTAGAAAAACATTTCTTCAAGGTAATGACTTGTGGACTATGTTCTGAATTC 1863  
1800 1859

EcRI  
TCATTAAGTTTTTATTTCTGAAGTTTAAGTTTTTACCTTCTGTTTTTGAAATATATCGTTTCATAAGATG 1932

SphI  
BstNI AluI  
1940 1950  
TCACGCCAGGACATGAGCTACACATCGCACATAGCATGCGAGATTCAGGACGATTTGTCACTCACTTCAA 2001  
1973 1971

SphI  
Sau3AI  
2044 2058  
CACCTAAGAGCTTCTCTCTCACAGCGCACACATATGCAATGCAATATTACACGTGATCGCCATGCAA 2070  
2006 2012 2036 2042

SphI  
HhaI NdeI  
2028 2036 2042  
ATCTCCATTCTCACCTATAAATTAGAGCCTCGGCTTCACTCTTTACTCAAAACCAAACTCATCACTACA 2139

AluI  
2164  
GAACATACACAAATGGCGAACAAGCTTCTCCTCGTCTCGGCAACTCTCGCCTTGTCTTCTTCTCACC 2208  
MetAlaAsnLysLeuPheLeuValSerAlaThrLeuAlaLeuPheLeuLeuThr

2164

FIGURE 2E

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FIGURE 2F

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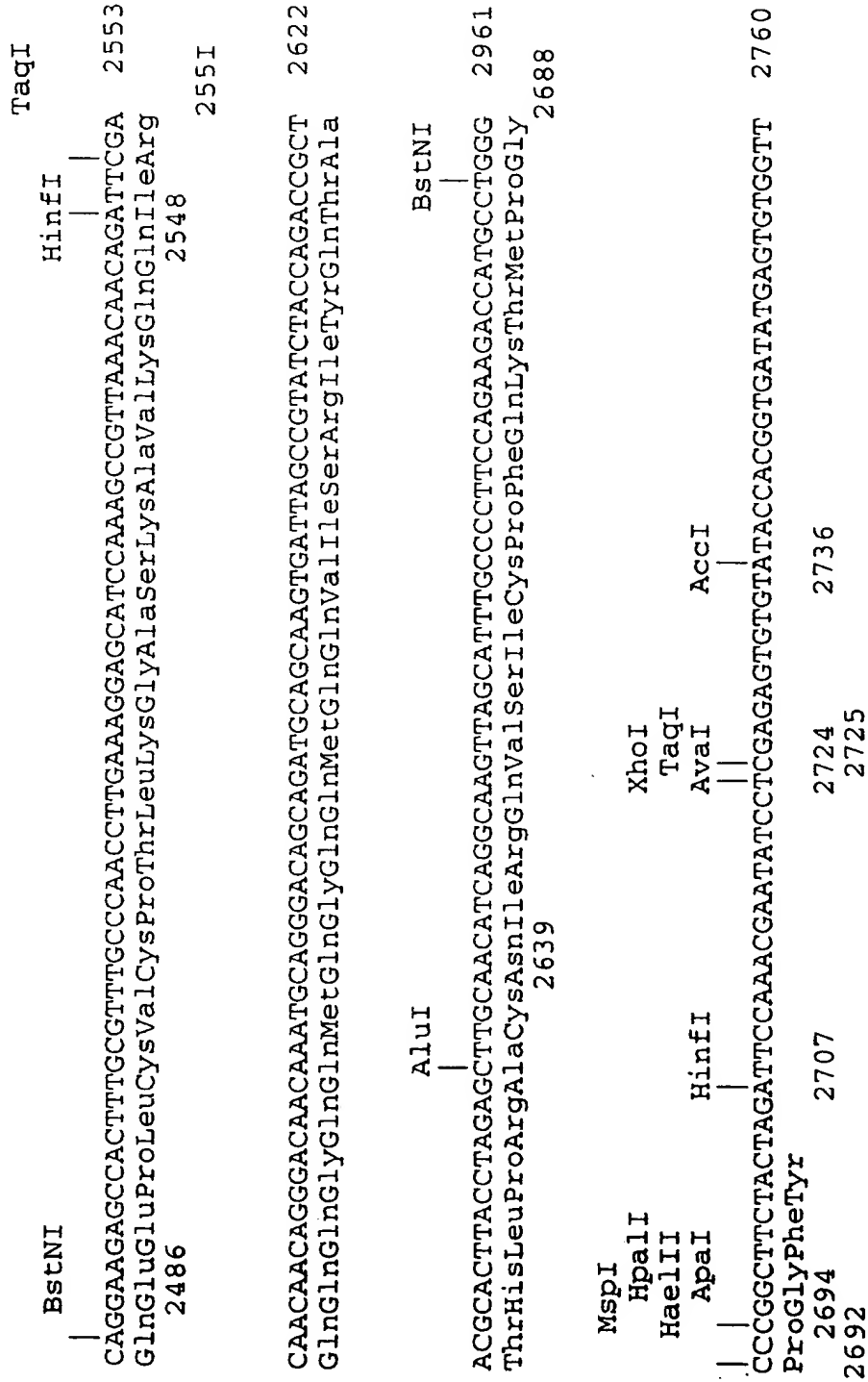


FIGURE 2G

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HindII		RsaI	
GTTGATGTATGTTAACACTACATAGTCATGGTGTGTGTTCCATAAAATAATGTACTAATGTAATAAGAAC		2813	2829
2771			
ACCI			
TACTCCGTAGACGGTAATAAAAGAGAAAGTTTTTTTTTACTCTTGCTACTTTCCTATAAAGTGATGAT			2898
2838			
	ScaI		
	RsaI		
TAACAACAGATACACCAAAAAAGAAAAACAATTAATCTATATTCACAATGAAGCAGTACTAGTCTATTGAA		2954	2967
	Sau3AI		
CATGTCAGATTTTCTTTTCTAAATGCTCTAATTAAGCCCTTCAAGGCTAGTGATGATAAAAAGATCATCCA		3028	3036
Sau3AI		Sau3AI	
BamHI	HinfI	BclI	
ATGGGATCCAACAAGAGACTCAAATCTGGTTTTTGTATCAGATACTTCAAAACTATTTTGTATTCATTAAA		3069	3105
3041	3053		

FIGURE 2H



HinfI  
 |  
 TTATGCAAGTGTTCTTTTATTGTTGGTGAAGACTCTTTTAGAAGCAAAAGAACGACAGTAATAAAAAA 3174  
 3135  
 ACAAAGTTCAGTTTAAAGATTTGTTATTGACTTATTGTCATTTTGAAAAATATAGTATGATATTAATATA 3243  
 GTTTTATTATATAAATGCTTGTCTATTCAAGATTGAGAACATTAAATATGATACACTGTCCACATATCCAA 3312  
 NdeI  
 |  
 TATATTAAAGTTTCATTTCTGTTCAAAACATATGATAAGATGGTCAAATGATTATGAGTTTGTATTATAC 3381  
 3341  
 TaqI  
 |  
 AluI  
 |  
 RsaI  
 |  
 Sau3AI  
 |  
 CTGAAGAAAAGATAAGTGAGCTTTCGAGTTTCTGAAGGGTACGTGATCTTTCATTTCTTGGCTAAAAAGCGA 3450  
 3402 3421 3425  
 ATATGACATCACCTAGAGAAAGCCGATAAATAGTAAACTCTGTTCTTGGTTTGTGGTTTAAATCAAACCGA 3519  
 MspI DdeI  
 HpaII AluI  
 |  
 ACCGGTAGCTGAGTGTCAGTCAAGTCAAGCAAAACATCGCAAAACCATATGTCAATTTCGTTAGATTCCCGGTTTAA 3588  
 3522 3528 3560 3576 3581  
 3529

FIGURE 2I

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MspI  
 HpaII  
 GTTGTAACCGGTATTTTCATTGGTGAAACCCCTAGAGCCAGCCANCCCTTTTAAATCTAATTTTGCA 3657  
 3598

DdeI  
 HinfI  
 HincII  
 BstNI  
 AACGAGAAGTCACACCTCTCCACTAAACCCCTGAACCTTACTGAGAGAAGCAGAGNCANNAAGAA 3726  
 3702 3718  
 3715  
 3714

CAAATAAAACCCGAAGATGAGACCACCGTGCAGCGGGACGTTTCAGGGACGGGAGGAAGAATGR 3795

AvaII  
 AluI  
 CGCGG5MNTTGGTGGCGCGGCGGACGTTTGGTGGCGGCGGTGGACGTTTGGTGGCGGCGGTGGA 3864  
 3804 3863  
 3801

EcoRV  
 AvaII  
 DdeI  
 CCTTGGTGGATATCGTGACGAAGGACCTCCAGTGAAGTCATTGGTTCGTTTACTCTTTCTTAG 3933  
 3880 3892 3930

FIGURE 2J

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**FIGURE 2K**



4325

TaqI  
 SalI  
 PstI  
 HindIII  
 Sau3AI  
 AluI  
 TGGGAAAGTTGATGAGATCCAAAGCTTGGGCTGCAGGTCGACGAATC  
 4294 4302 4300 4316 4321  
 4314 4313 4315  
 HincII  
 AccI  
 EcoRI

FIGURE 2L

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Brassica campestris ACP Genomic Sequence

1 AAGAGTATGCTACTACTACTACTCTATAATCAAGTTTCAAGAAGCTGAGCTTGGCTCTCACTTTATAT 69  
11 46 51 47  
AccI DdeI AluI AluI  
70 GTTGTATGTTGTTGTCAGGTATGGTAAATCATGGAAGAGATAAAGAAATGCAAAACCCCTGAAGTATTGG 138  
139 CAGAGAGGACTGAGGTGAGAGAGCATGTCACCTTTTGTGTTACTCATCTGAATTATCTTATATGCGAATT 207  
149 DdeI  
208 GTAAGTGGTACTAAAAGGTTTGTAACTTTTGGTAGGTGGATTGGAAGGATAAAATGGAGGAACTTGCTTC 276  
217 RsaI  
277 GGTAGCGGTAACAAGTTTATATTGCTATGAAGCTTTTTCCTGCGTGACGTATCAGCAGCTGTGGAG 345  
310 338 338  
HindIII PvuII AluI

FIGURE 3A

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346 AAGATGCTATTAGAAAGGTCCTTTTCACATTTTGTGTTGTGACAAATATAATTTCGCCCGGTATGGTTT 414  
MspI  
HpaII  
HaeIII  
403  
404  
404

415 GGTTAAGACTTGTGAGAGACGTGTGGGTTTTTTTGATGTATAATAGTCTGTGTTTAGAACGAAACAA 483

484 GACTTGTGNGTATGCTTTTTTAACTTGAGGGGGTTTGTGTTGTAGTTAGGAACCTTGACTTTGTCT 552  
Tth111I  
547

553 CTTTCTCTCAAGATCTGATTGGTAAGGCTCTGGGTGGTAGTACTGTGTTTAAATTTGTTTGTACTATT 621  
Sau3AI  
BglII  
ScaI  
RsaI  
564  
564  
593  
593

622 GAGTCACTGTGGCCCATTTGACTTTTAAATTAGGCTGGGTATATTTTTTGGTTTAAACCGGCTCTGAGATAG 690  
HinfI  
HaeIII  
DraI  
HpaII  
DraI  
MspI  
DdeI  
623  
634  
646  
673  
678  
683  
678

FIGURE 3B

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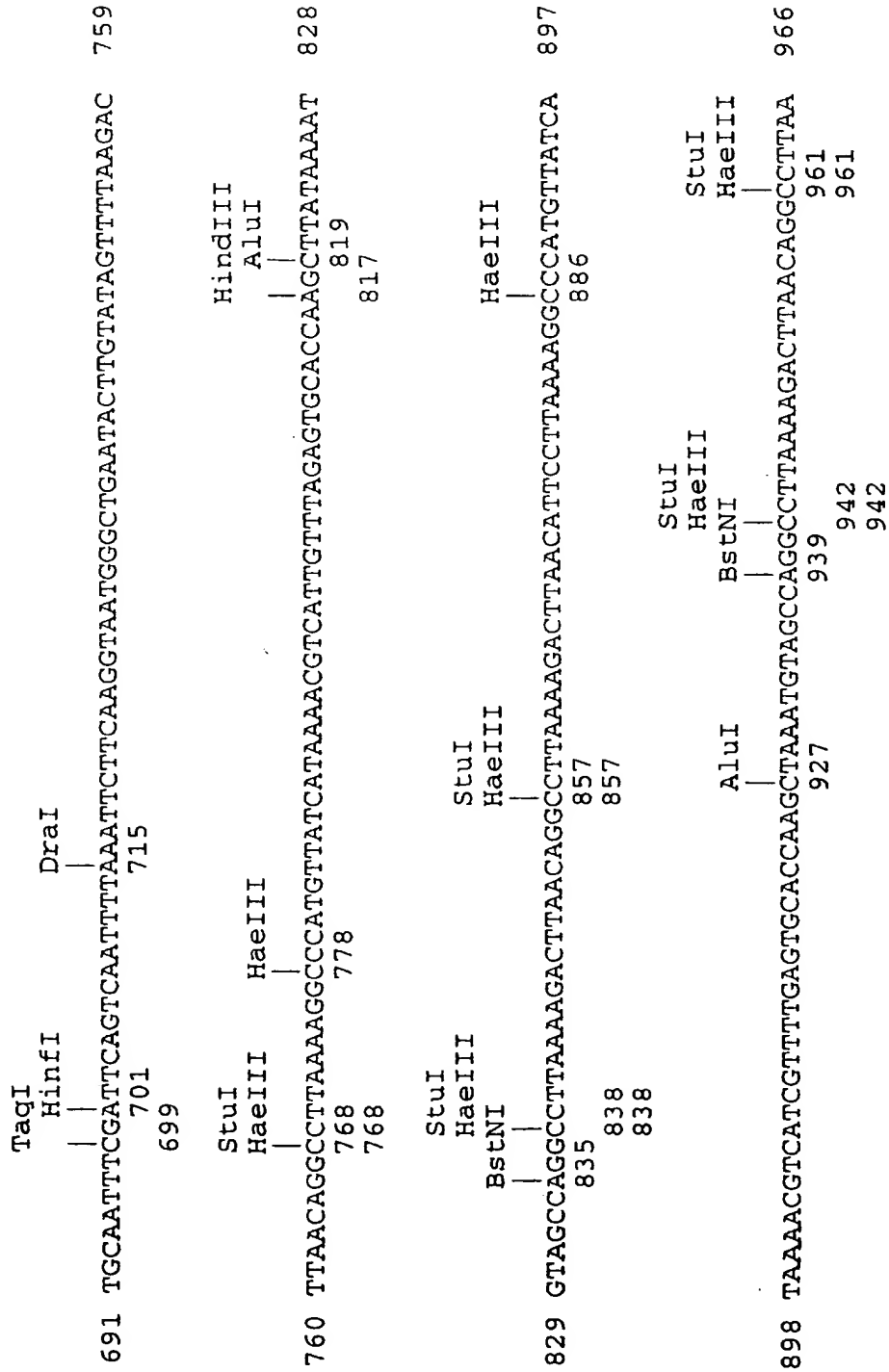


FIGURE 3C

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1174 TGTGTTCCAGATCGCTCTGATCATCACTTTCTTTTAGATCATCTTGCCTCTGATCTGTGCTTGATGTTT 1242  
1184 1193 1210 1224  
Sau3AI BclI Sau3AI  
1193  
HincII  
1243 GTTAACTCTCCACGCATGTTTGATTATGTTGAGAAATTAGAAAAAATGTAGCTTTACGAATCTTTAG 1311  
1243 1296 1303  
HincII AluI HincII  
1312 TGATCATTTCAATTGGATTGCAATCTGTGTGACATTTGAGGCTTGTGTAGATTTTCGATCTGTATTCA 1380  
1313 1369  
1313 1368  
Sau3AI TaqI  
BclI Sau3AI  
HincII AluI  
1381 TTTTGAATCACAGCTATAATAGTCAATTGAGTAGTAGTGTGTTTTTAAATGAACATGTTTTTGTGTATTGA 1449  
1386 1394 1425  
HincII AluI  
1450 TGAACAACAGGCAGCAACACGAGGATTAGTTTCCAGAGCCAGCTTTTGGTTTCAACGACTAATCTC 1518  
AlaAlaThrThrArgIleSerPheGlnLysProAlaLeuValSerThrThrAsnLeu  
1496

FIGURE 3E

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1519 TCCTTCAACCTCCGCCGTTCAATCCCACTCGTTTCTCAATCTCCTCGCGGTATGTTCTCATCTCAG 1587  
SerPheAsnLeuArgArgSerIleProThrArgPheSerIleSerCysAla 1568  
HhaI DdeI 1584  
TaqI  
1588 CATTATTTTCGAGCTTGCTTGTCATGGTACTCTCTCTAATTGTCTATTTGGTTTATTAGGCCAAACCAG 1656  
AlaLysProG 1648  
HaeIII  
1601 1616  
1597  
DdeI AluI RsaI  
1657 AGACGGTTGAGAAAGTGTCTAAGATAGTTAAGAAGCAGCATCTCAAGACGACCAAAAGGTCGTTG 1725  
luThrValGluLysValSerLysIleValLysLysGlnLeuSerLeuLysAspGlnLysValVala 1695  
AluI  
1726 CGGAGACCAAGTTTGCTGATCTTGGAGCAGATTCTCTCGACACTGTAAGTCATCAATCATTCTCTTATG 1794  
laGluThrLysPheAlaAspLeuGlyAlaAspSerLeuAspThr 1743  
Sau3AI HinfI TaqI 1756 1763  
1795 TGAATAAAGAGAACTTGAAGAGTTTGTTTTTAAACATATTAACCTGAGTGTGTTTGCATGCAGGTTGAGATA 1863  
DdeI SphI  
1837 1852  
ValGluIle

FIGURE 3F

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1864 GTGATGGGTTTAGAGGAAGAGTTTGATATCGAAATGGCTGAAGAGAAAGCTCAGAAGATTGCTACTGTG 1932  
 ValMetGlyLeuGluGluGluPheAspIleGluMetAlaGluGluLysAlaGlnLysIleAlaThrVal  
 1891 1893 1913 1914  
 TaqI DdeI  
 EcoRV AluI  
 1933 GAGGAAGCTGCTGAACTCATTGAAGAGCTCGTTCAACTTAAGAAGTAATTTTAGTATTAAAGAGCAGCCA 2001  
 GluGluAlaAlaGluLeuIleGluGluLeuValGlnLeuLysLys  
 1940 1960 1962  
 SacI  
 AluI  
 2002 AGGCTTTGTTGGGTTTGTTGTTTTCATAAATCTTCCTGTCATTTTCTTTTCTTTTAATGTCGAAGCGAC 2070  
 2069  
 Hinfi  
 2071 TCTGTTGGTTTAAAGTAGTATCTGTTTGCCATGGATCTCTCTCTATTGTCGACTGAAAACTTTTGGTT 2139  
 2082 2100 2104 2119 2120 2121  
 DraI NcoI Sau3AI TaqI  
 HindIII Sali HincII AccI  
 AluI  
 2140 TACACATGAAAGCTT 2154  
 2152 2150

FIGURE 3G

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Complete nucleotide sequence of B. campestris cDNA EA9. The longest open reading frame is designated by three letter amino acid code. PolyA tails are evident at the end of the sequence and a potential polyadenylation signal is underlined.

**FIGURE 4A**



208	ACGCAACGTGGAACGCATTGAACGCTTAATGACGTTCAATCCGACTAACGTTTAAACTCGCGGTGAA	HpaII	DraI	276
	sArgAsnValGluArgIleGluArgLeuAsnAspValGlnSerGlyLeuThrPheLysLeuAlaValAs	250	263	
277	CCAGTTTGCTGATCTAACCAACGAAGAATCCGTTTCTATGTACACTGGTTTCAAAGGAACTCTGTGTT	RsaI		345
	nGlnPheAlaAspLeuThrAsnGluPheArgSerMETTyThrGlyPheLysGlyAsnSerValLe	303	318	
346	GTCTAGTCGAACCTAAACCAACGTCGTTTAGGTACCAAAACGTTTCTTCTGATGCGTTGCCGGTTTCTGT	TaqI	RsaI	414
	uSerSerArgThrLysProThrSerPheArgTyThrGlnAsnValSerSerAspAlaLeuProValSerVa	353	380	
		378	405	
415	TGATTGGAGGAAGAAAGGAGCTGTGACTCCTATCAAGGCTTATGCGGATCTTGTGGCGTT	AluI	Sau3AI	483
	lAspTrpArgLysLysGlyAlaValThrProIleLysAspGlnGlyLeuCysGlySerCysTrpAlaPh	435	468	

FIGURE 4B

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PvuII  
AluI  
|  
484 TTCAGCTGTTGCGGCTATAGAAGGAGTAGCACAGATAAAGAAAGGAAACTCATTTCTTTGTCTGAACA 552  
eSerAlaValAlaAlaIleGluGlyValAlaGlnIleLysLysGlyLysLeuIleSerLeuSerGluGlu  
489  
489  
  
TaqI  
SalI  
HincII  
AluI AccI  
|||  
553 AGAGCTTGTTCGACTGCGACACAAACGATGGTGGCTGCATGGCGGTTTGATGGATACAGCGTTTAACTA 621  
nGluLeuValAspCysAspThrAsnAspGlyGlyCysMETGlyGlyLeuMETAspThrAlaPheAsnTy  
557 562  
560  
561  
562  
  
622 CACAATAACTATTGGCGGCTTAACCTCTGAATCAATATCCTTATAAAGCACAAACGGCACTTGCAA 690  
rThrIleThrIleGlyGlyLeuThrSerGluSerAsnTy rProTy rLysSerThrAsnGlyThrCysAs  
  
HpaII  
|  
691 CTTCAATAAAACTAAACAGATAGCAACTTCTATCAAAAGGTTTGTGAGGATGTCCCGGCTAACGATGAGAA 759  
nPheAsnLysThrLysGlnIleAlaThrSerIleLysGlyPheGluAspValProAlaAsnAspGluLy  
744

FIGURE 4C

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760 AGCCCTAATGAAGGCAGTGGCACACACCCGGTTAGCATTTGGAATAGCGGGAGGAGATATTGGTTTCCA 828  
 HpaII  
 salaleuMETLysAlaValAlaHisHisProValSerIleGlyIleAlaGlyGlyAspIleGlyPheG1  
 789  
 829 ATTCTATTCTCGTCCGGTGTGTTTCAGCGGAGAAATGCACAACATCATCTTGATCACGGGGTAACATGCGGTTGG 897  
 HpaII  
 nPheTyrSerSerGlyValPheSerGlyGluCysThrThrHisLeuAspHisGlyValThrAlaValG1  
 841  
 875  
 875  
 ScaI Sau3AI  
 RsaI BamHI EcoRI AvaII  
 898 ATACGGCCGATCTAAAAACGGATTAAAGTACTGGATCCTCAAGAATTCATGGGACCAAAATGGGGAGA 966  
 HaeIII  
 yTyrGlyArgSerLysAsnGlyLeuLysTyrTrpIleLeuLysAsnSerTrpGlyProLysTrpGlyG1  
 904  
 906  
 927  
 931  
 927  
 967 ACGTGATACATGAGGATCAAAAAAGATATCAAGCCCTAAACACGGACAATGTGGTCTTGCCATGAATGC 1035  
 Sau3AI EcoRV  
 uArgGlyTyrMETArgIleLysLysAspIleLysProLysHisGlyGlnCysGlyLeuAlaMETAsnAl  
 982  
 995

FIGURE 4D

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RsaI  
 |  
 1036 TTCGTACCCAACTATGTGAAAAAATCGGTTCAATATCCCGGTTAAGCTTTAGATAAAATGTTGTGTTGG 1104  
 aSerTyrProThrMET  
 1041  
 1073 1081  
 1079

1105 TTATAATTAAAGACTCTGTTGCATGTAATTTGTGAAATGGTAAGTTTATGTGATGCAAAAGATTGATA 1173

1174 AAAAAAAAAAAAAA 1186

FIGURE 4E

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3H11 TTTTTTTGAGCAAAGGGCAACTCAGATATCCAAAGATGAATCCAACATATA 51  
3H11 GCTTACAGCTGGGAGAACATTGTCTAACTCTTCTGAAATTTAAATGTTATC 102  
3H11 CAGAATCCTTCATCATAAAATAATATCAAAATGCAAATCTATTTTTTCTAC 153  
3H11 TCTTGTCTAGCTTCAACTTTCTTCTTCTGCTCATCAATTAGCAATTAATCC 204  
TGCTCATCAATTAGCAATTAATCC  
3H11 AAAACCATTATGGCTGCCAAAAATTCAGAGATGAAGTTTGCTATCTTCTTC 255  
2A11 AAAACCATTATGGCTGCCAAAAATTCAGAGATGAAGTTTGCTATCTTCTTC  
METAlaAlaLysAsnSerGluMETLysPheAlaIlePhePhe  
3H11 GTTGTTCCTTTGACGACCACTTTAGTTGATATGTCTGGAATTTGAAAAATG 306  
2A11 GTTGTTCCTTTGACGACCACTTTAGTTGATATGTCTGGAATTTGAAAAATG  
ValValLeuLeuThrThrThrLeuValAspMETSerGlyIleSerLysMET  
3H11 CAAGTGATGGCTCTTCGAGACATACCCCCACAAGAAACATTGCTGAAAAATG 357  
2A11 CAAGTGATGGCTCTTCGAGACATACCCCCACAAGAAACATTGCTGAAAAATG  
GlnValMETAlaLeuArgAspIleProProGlnGluThrLeuLeuLysMET  
3H11 AAGCTACTTCCCACAAATATTTTGGGACTTTGTAACGAACCTTGCGAGCTCA 408  
2A11 AAGCTACTTCCCACAAATATTTTGGGACTTTGTAACGAACCTTGCGAGCTCA  
LysLeuLeuProThrAsnIleLeuGlyLeuCysAsnGluProCysSerSer  
3H11 AACTCTGATTGCATCGGAATTACCCCTTGCCAATTTTGTAAAGGAGAAGACG 459  
2A11 AACTCTGATTGCATCGGAATTACCCCTTGCCAATTTTGTAAAGGAGAAGACG  
AsnSerAspCysIleGlyIleThrLeuCysGlnPhyCysLysGluLysThr  
3H11 GACCAGTATGGTTTAAACATACCGTACATGCAACCTGTTGCCTTGAACAATA 510  
2A11 GACCAGTATGGTTTAAACATACCGTACATGCAACCTGTTGCCTTGAACAATA  
AspGlnTyrGlyLeuThrTyrArgThrCysAsnLeuLeuPro  
3H11 TCAATGATCTATCGATCGATCTATCTATCTATTTATCTGTCTCTGCGCGTA 561  
2A11 TCAATGATCTATCGATCGATCTATCTATCTATTTATCTGTCTCTGCGCGTA  
3H11 TAGTGTTGTCTGTACCTTTGGTGTGAAGAATATGAATAAAGGGATACATAT 612  
2A11 TAGTGTTGTCTGTACCTTTGGTGTGAAGAATGTGAATAAAGGGATACATAT  
3H11 ATCTAGATATATTCTAGGTAATGTCCTATTGTATTTAAAATTTGTAGCAAT 663  
2A11 ATCTAGATATATTCTAGGTAATGTCCTATTGTATTTAAAATTTGTAGCAAT  
3H11 GATTGTTTGAATAAAAAACATACCATGAGTGAAATAATTATCCACATTAAT 714  
2A11 GATTGTTTGAATAAAAAACATACCATGAGTGAAATAATTATTC  
3H11 TCACGTATTTATTTCACTTATGATACGTATTTTTGTTCCTTTGCGGTAAAA 765  
3H11 AAAAAAAAAA 774

FIGURE 5

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(a)

2A11

PA1b

Chick pea  
inhibitorLima bean  
inhibitor $\alpha_1$ -antitrypsin

V	M	A	L	R	D	I	P	P	Q	E	T	L	L				
V	C	S	P	F	D	I	P	P	C	G	S	P	L	C	R	C	I
V	C	T	-	K	S	I	P	P	-	-	-	-	Q	C	R	C	N
L	C	T	-	K	S	I	P	P	-	-	-	-	Q	C	R	C	T
L	G	A	I	P	M	S	I	P	P	E	V						

(b)

2A11

PA1b

Barley chloroform/  
methanol-soluble  
protein dWheat  $\alpha$ -amylase  
inhibitor 0.28

Wheat albumin

Millet bi-functional  
inhibitorCastor bean 2S  
small subunit

Napin small subunit

T	N	I	L	G	L	C	N	E	P	C	S	S	N	S	D	C	I	
G	S	P	L	C	R	C	I	P	A	G	L	V	I	G	N	C	R	
T	N	L	L	G	N	C	R	-	F	Y	L	V	Q	Q	T	C	A	
V	S	A	L	T	G	C	R	-	A	M	V	K	L	Q	-	C	V	
V	P	A	L	P	A	C	R	P	L	-	L	R	L	Q	-	C	N	
N	N	P	L	D	S	C	R	W	Y	V	S	A	T	K	R	A	C	G
Q	Q	N	L	R	Q	C	Q	E	Y	I	K	Q	Q	V	S	G	Q	
A	Q	N	L	R	A	C	Q	Q	W	L	N	K	Q	A	M	Q	S	

FIGURE 6

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## 2A11 GENOMIC

CTCGAGCCCT TTAAAAAGTA TAGTCAATAT TTACGGTGAC CGTGAATTTC TTAATTATGA	60
TATATAAATT AAAAGAAATC ATGATCACAT TCTACTGATG AGAACATGTG CTAATCAAGG	120
GAAAACATGG ATGTGAAAAA TACTTTTGT TAAAAGTAAA AAAAAATGTG AAATTTTGT	180
AGTTATTAC TACCTATACA TTATTGAGC ATGTGCAAAAC TTTACAAATA CCTAATAGAA	240
GATTTTCACC TGCCTGTATA TATGTA AATT TAAATG AACACTCTCA CATAAAATAA	300
TTATCAGTAT ATACATTAAAT ACTTGCCCTC CACAATGAAT TAAATAAAAT GTAGAACATG	360
ATCTACACTT CAATAAAACT AAGACCATAA AGAATAATTT CAAAATATAC ACATGTCAAC	420
AAATAATTAT TTGCATATTA TATTAACTTA CTAAACAATC TTTACTTTTG AAATATAAAA	480
ATAATCAAGT TATAAGTCTG CTCAAAAGTAA AGCACTTGTT AGACTCATCT GATTTTGAGA	540
AGGTAAGCAA ATTGATGGTG CATAATAGTC ACAAGTAAAA TATAAAATAG ATTTCAATTAG	600
TAAAAATTGTT TTTTACTTTC TTTATATATA ATTATCAATA TCCTTCAATG GTAGGTTAAT	660
TATATTGTTA ACTTCTTGTT GAATTAAAGC AATAAGACAA GAATATTAAA GATAAAAGAA	720
CAATAAAAAAT AGAAAGACTA AGAGATAAGA GTTTTCTTAT TCCTCTTTCA ATAAGTATCA	780
TCAAGTGTAT ACAATATAAA TTTTGTGATT TTGATCTAT CTATTATATA TGTTATATAT	840
AAGCATACAA AAGATCAGTC ATAAATATGA CTTTAATCAT GAAAATAATG AAAGAGATTA	900

FIGURE 7A

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TGAAGGCGTA AGGTTACTAG AATAATAGTC ATTAAAAAAA GGGGTTATCT TTATAATTGA 960  
 ATAATTGATG AAGTAATGGA GATAATTAGT GAGCATAAAT TTTTTTAAAA AAATGGACAT 1020  
 TTACACTATA ATATTTTATA ACACTTTCCC TTAAACATCT AGGTATAAAT AATGAGTCCT 1080  
 GTCAAAAATCT TAGTAGGAAA AATTCTGTGA AATTTTTTTA GTGAAAACAA ATGATATAAA 1140  
 TATCTTGAAT ACTCATTATT TGTGTCTCA TTTAAAAATCT TATCTGACCT ATAAAAATAAA 1200  
 TTATTTGCTC AACTCAAAAT AGTTTTTCAT TCTAAAAATTA GTATAATTAT TAGTGAATAT 1260  
 TTAATTACA TAATTGTATA CTAAGGGGCC TATAAATTGG ATCTCTCTCA AAGAAAAATA 1320  
 AAATCACCAC ACAACTTTCT TCTTCTGCTC ATCAATTAGC AATTAATCCA AAACCAT 1378  
 ATG GCT GCC AAA AAT TCA GAG ATG AAG TTT GCT ATC TTC TTC GTT GTT 1426  
 MET Ala Ala Lys Asn Ser Glu MET Lys Phe Ala Ile Phe Phe Val Val  
 CTT TTG ACG ACC ACT TTA GGTTCAACAAC ACTTCTCCCT TATTTTGTTT 1474  
 Leu Leu Thr Thr Thr Leu  
 TCTTAATTTC TTGGAAGTCA TATGCAATGTG TTTGGTATCA TGGTATATAT ATAAAGGAAA 1534  
 ATATTTTCTCT TAATTACTGG TTTTCTAATG TTTGGTAGGT AATCGGAAAT TATTATGAGA 1594  
 TAATGAACTT GCAAAGTCAT TATTATATAA CTTTTTTTTT ATACTTTTGT TTAAGAAATTC 1654  
 ATTTTCTCTCA TTTTATATAA ACTTATTTTT CAACAGAAAA TATTTTTCGA ACTATTCAAA 1714  
 CACACCCCTAA GACATTACAT ATATATATAT ATACACCCCTC CGTTTATAT TACTTAATGC 1774

FIGURE 7B

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CTATTGAGTT GGCCACCCTT TTAAGAATGA TTCAATTAGA GATATGTTTT ACTAAATTAA 1834  
CCTATGCTTT AAGACTCTAA ATTTGGCTAT TACTATTITA CGTTGTAATT TAATGACAAA 1894  
CATTTCATAA TGACTATAGT CTGAACTTAA TTAGACAGAC GTATCTATAG TTTGCTTACT 1954  
AATGATTCAAT AGCTATATAT TTGGAGAGGA GAGAGACAAA CGATATTAAAG AAAGGGAGGA 2014  
GAGAGGCGAG GTAAATCTGA AATAGAGAAG AGAAAGGCAA CCAATTTTGA TCATCTATCA 2074  
TACTTTTGAT TATTATTTTT ATTATATGTA CGTTTACATT ACAGTTTTTCG AATTCTTACA 2134  
TTAATCTTAA TCATAATATA TACA GTT GAT ATG TCT GGA ATT TCG AAA ATG CAA 2188  
Val Asp MET Ser Gly Ile Ser Lys MET Gln  
GTG ATG GCT CTT CGA GAC ATA CCC CCA CAA GAA ACA TTG CTG AAA ATG 2236  
Val MET Ala Leu Arg Asp Ile Pro pro Gln Glu Thr Leu Lys MET  
AAG CTA CTT CCC ACA AAT ATT TTG GGA CTT TGT AAC GAA CCT TGC AGC 2284  
Lys Leu Leu pro Thr Asn Ile Leu Gly Leu Cys Asn Glu pro Cys Ser  
TCA AAC TCT GAT TGC ATC GGA ATT ACC CTT TGC CAA TTT TGT AAG GAG 2332  
Ser Asn Ser Asp Cys Ile Gly Ile Thr Leu Cys Gln Phe Cys Lys Glu  
AAG ACG GAC CAG TAT GGT TTA ACA TAC CGT ACA TGC AAC CTG TTG CCT 2390  
Lys Thr Asp Gln Tyr Gly Leu Thr Tyr Arg Thr Cys Asn Leu Leu pro  
TGA ACAATATCAA TGATCTATCG ATCGATCTAT CTATCTATTT ATCTGTCTCT 2433  
GCGCGTATAG TGTTGTCTGT ACCTTTGGTG TGAAGAATAT GAATAAAGGG ATACATATAT 2493  
CTAGATATAT TCTAGGTAAT GTCCTATTGT ATTTAAATTT TGTAGCAATG ATTGTTTGAA 2553

FIGURE 7C

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TAAAAACATA	CCATGAGTGA	AATAATTATT	CCACATTAAT	TCACGTATTT	ATTTCACCTA	2613
TGATACGTAT	TTTTGTTCCT	TTCGGGTAGA	TTTTTGATCC	TTTTCCCTTT	TGAATATATA	2673
ACATTAAACA	CAATAAATGT	TTATTAAATT	AAGTTAATAT	TTTTATTAG	CTATTTATAT	2733
TTTTATTTGA	AATCAAACTT	GATAAATATT	TATAAAGATA	ATTAAACAAGT	AATGTGACAC	2793
TAACACCATG	TAATATTATC	TTGTCGTTAT	TTATGATAAT	ATTTTAAAAAT	TATAAATTTCA	2853
GTTAAAAAAT	TATTAAAAAA	ACATACTTTT	AAAAAGTGAG	TTAGCCTCCG	CTACCCACAT	2913
ACTTATGAAT	TGGACTAGTT	GTTTTTTTGAC	CCACAAAAAG	AATGGGCTAA	TTAAACCTGA	2973
CCTATCAAAAT	TTCAGAAATCT	GCATAGATTA	GTCCGAACGA	AATGAGTCAG	CCCCGTATTGA	3033
ACAAAATATC	AACAAGGACG	TTATGTAAAG	ATGTTTAAAG	AGGAAAAAAG	ATTTCTAATA	3093
CATATGGACT	TTCAATATCC	CAACTTTGTC	TGGCGATCTG	AACCCCTGCTT	AGTTTGTGTA	3153
TCATTAACTT	GTCTTGCTAT	GTATTTAAGA	TTTAAACTTT	ATATGTTTAA	ACTTACAGAA	3213
AATACATATA	AATCTCTCAA	GACTTGGCAA	CATAATTTAC	TTTAGTACTT	AAACTACATG	3273
AAAAATTTAAA	TATCCCTTTA	ACATCTTTGA	AGTGAATTAA	ATTATCACAA	TCCGAGCCTA	3333
CACCTTGGAC	GTGGCCGGCA	CTCAAGAACC	AGTGCTGGTC	CCCAAGCTAA	CCCTCATCCT	3393
GACTGACTAC	AAGCGGAAGG	CTAACTTAAG	TATACAAAAG	CTTAAAACTG	AATAAAAAATA	3453
ACTTTACAAG	GTTTTTAACAC	AAATGAACAA	CTTTGAAGAA	AATAATATAT	TCAACTAGCC	3513

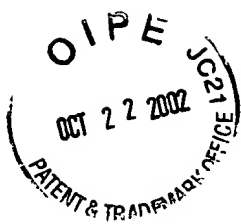
FIGURE 7D

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**FIGURE 7E**

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GTGCTCAATA C TACTCCAAA AAATATACTG CTCTTATGTT TAAAAACATA CTGATTCTGT 4473  
GGTTTGAAAT TATTGCTTAA AGCTTAGATT TTTGAAAAGC TCTCTTTTGA AAATCGTAGT 4533  
TTCCTTTTTC TTCTATTAAA GCTAGACATA GGCTATGTAG AACTCTAGCT TACCTTCCCTT 4593  
CTCAAAAGTT TGAAAACATT TGCTTAGATT CTAGGGACT ACTTAGTCC CTTGTGGAA 4653  
TTC 4656

FIGURE 7F

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## PG GENOMIC

10	20	30	40	50	60
AAGCTTCTTA AAAAGGCAAA TTGATTAATT TGAAGTCAAA ATAATTAATT ATAACAGTGG *					
70	80	90	100	110	120
TAAAGCACCT TAAGAAACCA TAGTTTGAAA GGTACCAAT GCGCTATATA TTAATCAACT *					
130	140	150	160	170	180
TGATAATATA AAAAAAATTT CAATTGCAAA AGGGCCTAAA ATATTCTCAA AGTATTCGAA *					
190	200	210	220	230	240
ATGGTACAAA ACTACCATCC GTCCACCTAT TGAATCCAAA ATAAAATTAT TATCCACCTT *					
250	260	270	280	290	300
TGAGTTTAAA ATTGACTACT TATATAACAA TTCTAAATTT AACTATTTT AATACTTTTA *					
310	320	330	340	350	360
AAAATACATG GCGTTCAAAT ATTTAATATA ATTTAATTTA TGAATATCAT TTATAAACCA *					
370	380	390	400	410	420
ACCAACTACC AACTCATTAA TCATTAAATC CCACCCAAAT TCTACTATCA AAATTGTCCT *					
430	440	450	460	470	480
AAACACTACT AAAACAAGAC GAAATTGTTC GAGTCCGAAT CGAAGCACCA ATCTAATTTA *					
490	500	510	520	530	540
GGTTGAGCCG CATATTTAGG AGGACACTTT CAATAGTATT TTTTCAAGC ATGAATTTGA *					
550	560	570	580	590	600
AATTTAAGAT TAATGGTAAA GAAGTAGTAC ATCCCGAATT AATTCATGCC TTTTAAAT *					
610	620	630	640	650	660
ATAATTATAT AAATATTTAT GATTGTGTTT AAATATTAAA ACTTGAATAT ATTATTTTTT *					
670	680	690	700	710	720
TAAAAATTAT CTATTAAGTA CCATCACATA ATTGAGACGA AGGAATAATT AAGATGAACA *					
730	740	750	760	770	780
TAGTGTTTAA TTAGTAATGG ATGGGTAGTA AATTTATTTA TAAATTATAT CAATAAGTTA *					
790	800	810	820	830	840
AATTATAACA AATATTTGAG CGCCATGTAT TTTAAAAAT ATTAAATAGT TTGAATTTAA *					

FIGURE 8A

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850	860	870	880	890	900
AACCGTTAGA	TAAATGGTCA	ATTTTGAACC	CAAAAGTGGA	TGAGAAGGGT	ATTTTAGAGC
910	920	930	940	950	960
CAATAGGRGG	ATGAGAAGGA	TATTTTGAAG	CCAATATGTG	ATGGATGAAG	GATAATTTTG
970	980	990	1000	1010	1020
TATCATTTCT	AATACTTTAA	AGATATTTTA	GGTCATTTTC	CCTTCTTTAG	TTTATAGACT
1030	1040	1050	1060	1070	1080
ATAGTGTTAG	TTCATCGAAT	ATCATCTATT	ATTTCCGTCT	TAAATTATTT	TTTATTTTAT
1090	1100	1110	1120	1130	1140
AAATTTTTTTA	AAAATAAATT	ATTTTTTTCCA	TTTAACTTTG	ATTGTAATTA	ATTTTTAAAA
1150	1160	1170	1180	1190	1200
ATTACCAACA	TATAAATAAA	ATTAATATTT	AACAAAGAAT	TGTAACATAA	TATTTTTTTTA
1210	1220	1230	1240	1250	1260
ATTATTCAAA	ATAAATATTT	TTAAACATCA	TATAAAAGAA	ATACGACAAA	AAAATTGAGA
1270	1280	1290	1300	1310	1320
CGGGAGAAGA	CAAGCCAGAC	AAAAATGTCC	AAGAACTCT	TTCGTCTAAA	TATCTCTCAT
1330	1340	1350	1360	1370	1380
CCAAACTAAT	ATAATACCCA	TTATAATTAA	CCATATTGAC	CAACTCAAAC	CCCTTAAAT
1390	1400	1410	1420	1430	1440
CTATAAATAG	ACAAACCCTT	CCCATACCTC	TTATCATAAA	AAAAATAATA	ATCTTTTTTCA
1450	1460	1470	1480	1490	1500
ATAGACAAGT	TTAAAAACCA	TACCATATAA	CAATATATCA	TGGTTATCCA	AAGGAATAGT
1510	1520	1530	1540	1550	1560
ATTCTCCTTC	TCATTATTAT	TTTTGCTTCA	TCAATTTCAA	CTTGTAGAAG	CAATGTTATT
1570	1580	1590	1600	1610	1620
GATGACAATT	TATTCAAACA	AGTTTATGAT	AATATTCTTG	AACAAGAATT	TGCTCATGAT
1630	1640	1650	1660	1670	1680
TTTCAAGCTT	ATCTTTCTTA	TTTGAGCAAA	AATATTGAAA	GCAACAATAA	TATTGACAAG

FIGURE 8B

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1690	1700	1710	1720	1730	1740
GTTGATAAAA	ATGGGATTAA	AGTGATTAAT	GTA CTTAGCT	TTGGAGCTAA	GGGTGATGGA
1750	1760	1770	1780	1790	1800
AAAACATATG	ATAATATTGT	AAGTATTTAA	ATATTGGAAT	ATATTTGTGG	GGATGAAAAT
1810	1820	1830	1840	1850	1860
GATAGAGAAT	ATAAGAATTA	TTTGGAAGGA	TGAAAAGTTA	TATTTTATAA	AGTAGAAAAAT
1870	1880	1890	1900	1910	1920
TATTTTCTCG	TTTTTAGTAA	TTAAAGGTGA	AAAATGAGTT	TTCTCGTAAG	CGAGGAAAGT
1930	1940	1950	1960	1970	1980
CATTTTCCAT	GGAACGTAT	TTTTTTTTTA	CTTTTAATAA	CGTCATAGTA	TTTGCTATAC
1990	2000	2010	2020	2030	2040
TCAAGAATAA	GACACTATTA	TTGATGTTTA	GTGCTCGAAA	AGAAATTGAT	AGTAATTTTG
2050	2060	2070	2080	2090	2100
CTAATATAAC	TATCAATTTC	TTATATGTAT	ATTTTCAAC	CAAATAACA	AAGCGTAATC
2110	2120	2130	2140	2150	2160
CAATAAGTGG	GCCTCTAGAA	TAAAGAGTAA	GTTCTATTAA	TTCTTAACCT	TATTTAATTT
2170	2180	2190	2200		
TATGGAAACC	TCGACAAAAC	GACAATGCTC	AACTTATATT	CGAATTC	

FIGURE 8C

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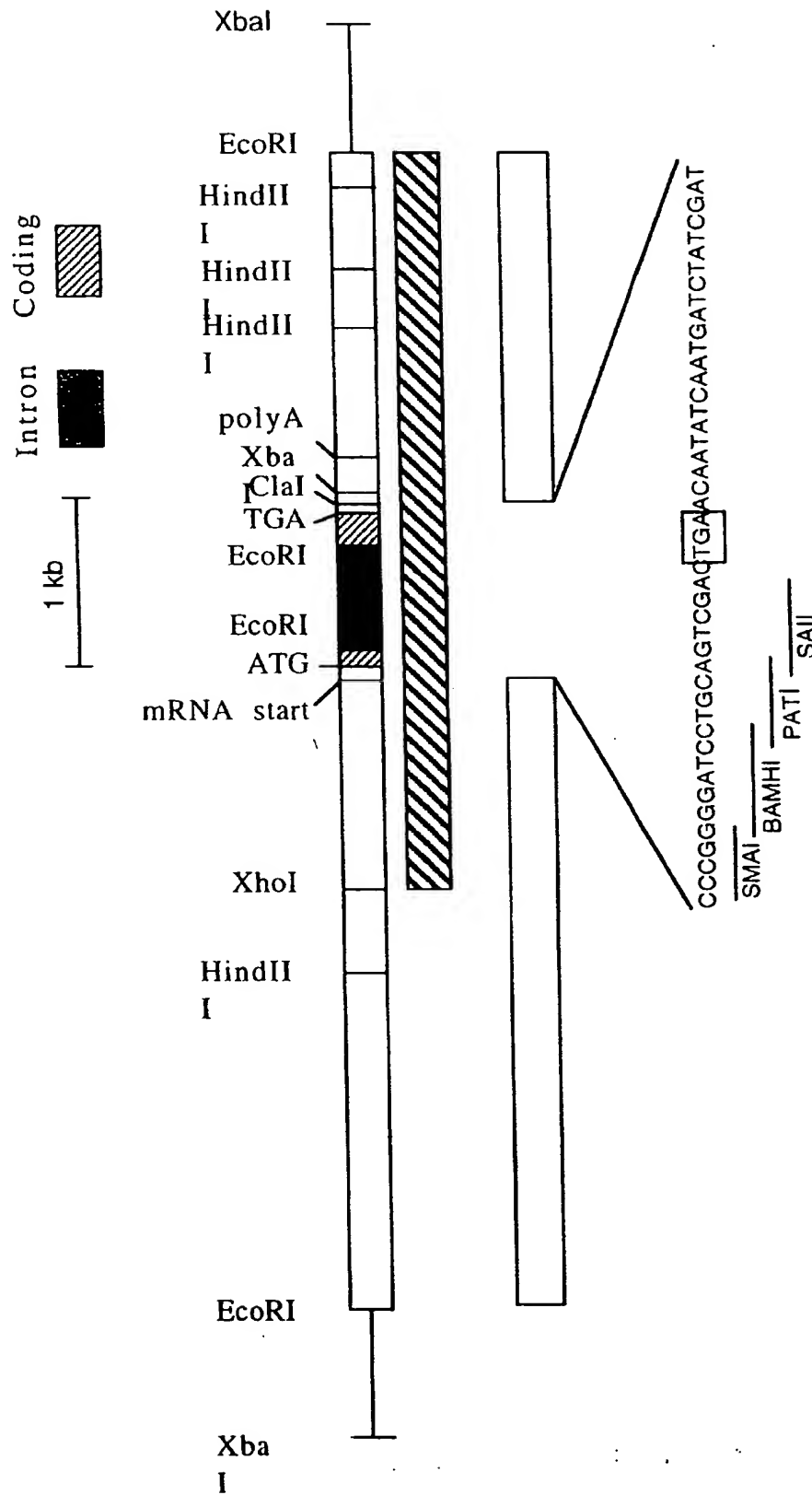


FIGURE 9

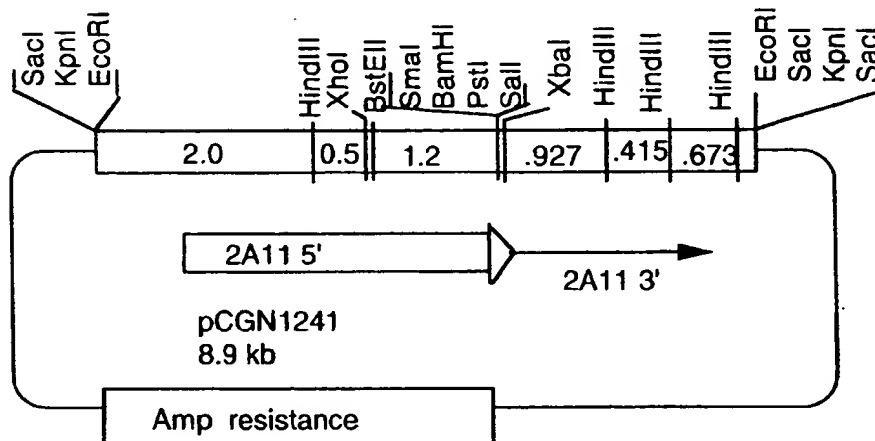
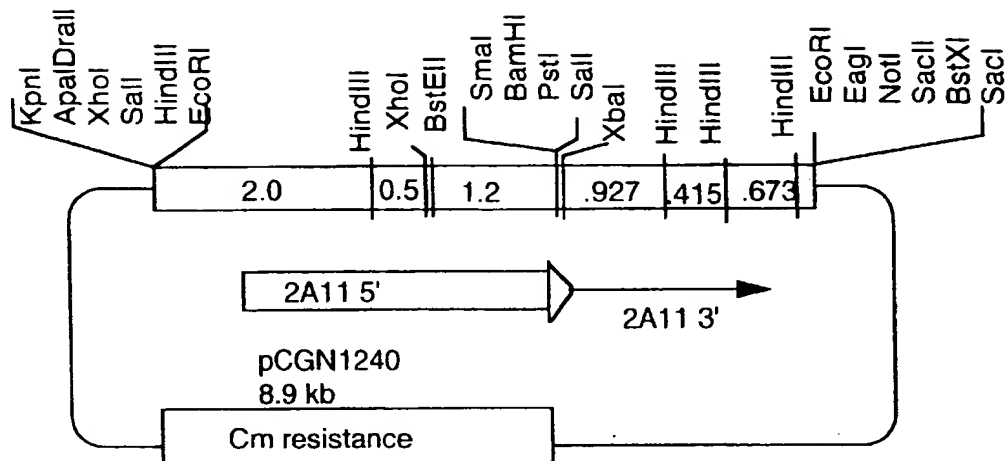
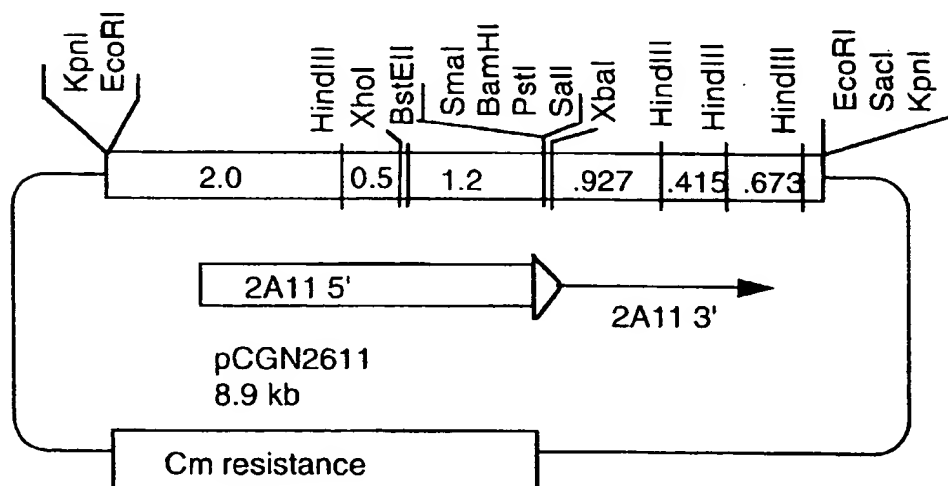
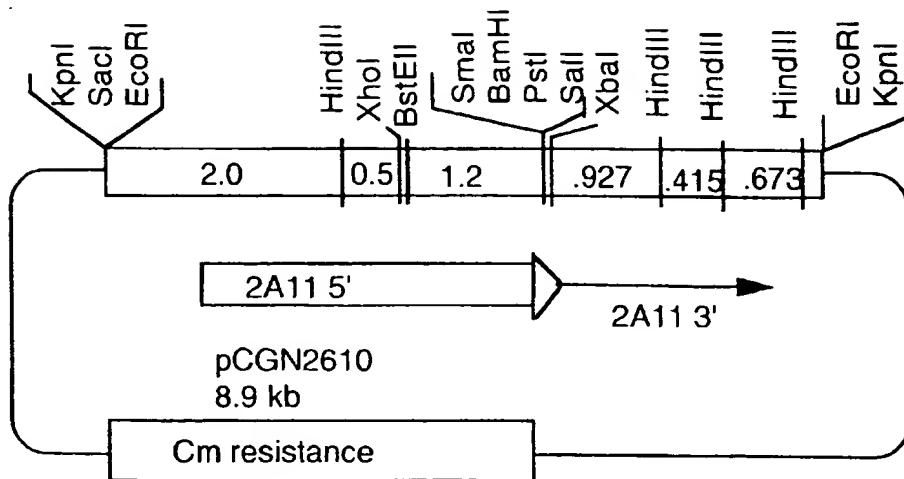


FIGURE 10A



**FIGURE 10B**